Medical
Wake

## CONTENTS

### No. 1, September 20, 1945


PAGE

Ponder, Eric. The mechanism of the inhibition of hemolysis. IV. The types of reaction involved ..... 1

White, Theodore. The toxicity of copper nitrate solutions to *Polycelis nigra*. II. The duplex toxic mechanism and the synergic effect of added solutes ..... 31

Osterhout, W. J. V. Effects of hydroxyl on negative and positive cells of *Nitella* ..... 43

Collier, H. Bruce. The acceleration of saponin hemolysis by proflavine. Plate 1 ..... 57


### No. 2, November 20, 1945


Cheney, Ralph Holt. The effects of caffeine on oxygen consumption and cell division in the fertilized egg of the sea urchin, *Arbacia punctulata* ..... 63

Osterhout, W. J. V. Water relations in the cell. I. The chloroplasts of *Nitella* and of *Spirogyra* ..... 73

Giese, Arthur C., and Crossman, Elizabeth B. The action spectrum of sensitization to heat with ultraviolet light ..... 79

Ponder, Eric. The paracrystalline state of the rat red cell ..... 89

Mommaerts, W. F. H. M. On the nature of forces operating in blood clotting. I. The participation of electrostatic attraction ..... 103

Mommaerts, W. F. H. M. On the nature of forces operating in blood clotting. II. The clotting of fibrinogen as a two-step reaction ..... 113


### No. 3, January 20, 1946


McCarty, Maclyn. Purification and properties of desoxyribonuclease isolated from beef pancreas ..... 123

Berger, Louis, Slein, Milton W., Colowick, Sidney P., and Cori, Carl F. Isolation of pure hexokinase from yeast ..... 141

Kunitz, M., and McDonald, Margaret R. Isolation of crystalline hexokinase and other proteins from yeast ..... 143

Kunitz, M. Crystalline soy bean trypsin inhibitor ..... 149

McDonald, Margaret R., and Kunitz, M. An improved method for the crystallization of trypsin ..... 155

Frank, Sylvia R. The effectiveness of the spectrum in chlorophyll formation ..... 157

Osterhout, W. J. V. Some properties of protoplasmic gels. I. Tension in the chloroplast of *Spirogyra* ..... 181

## No. 4, March 20, 1946

PAGE

Giese, Arthur C., and Crossman, Elizabeth B. Sensitization of cells to heat by visible light in presence of photodynamic dyes ..... 193
Ponder, Eric. The mechanism of the inhibition of hemolysis. V. Inhibitory processes occurring in the course of simple hemolytic reactions 203
Grob, David. Proteolytic enzymes. I. The control of their activity ... 219
Grob, David. Proteolytic enzymes. II. The physiological significance of the control of their activity, especially with respect to bacterial growth 249
Bernhard, C. G., and Granit, Ragnar. Nerve as model temperature end organ ..... 257

## No. 5, May 20, 1946

Shapiro, Herbert. The extracellular release of echinochrome ..... 267
Bliss, Alfred Frederick. The chemistry of daylight vision ..... 277
Bliss, Alfred Frederick. Photolytic lipids from visual pigments ..... 299
Conway, E. J., FitzGerald, O., and Macdougald, T. C. Potassium accumulation in the proximal convoluted tubules of the frog's kidney. 305
Hecht, Selig, Hendley, Charles D., Frank, Sylvia R., and Haig, Charles. Anoxia and brightness discrimination ..... 335

## No. 6, July 20, 1946

Meyer, Kurt H., and Bernfeld, P. The potentiometric analysis of membrane structure and its application to living animal membranes. .353
Berger, Louis, Slein, Milton W., Colowick, Sidney P., and Cori, Carl F. Isolation of hexokinase from baker's yeast ..... 379
Kunitz, M., and McDonald, Margaret R. Crystalline hexokinase (heterophosphatese). Method of isolation and properties ..... 393
Ball, Eric G. Some properties of the yeast yellow protein ..... 413
Myers, Jack. Culture conditions and the development of the photosynthetic mechanism. III. Influence of light intensity on cellular characteristics of *Chlorella* ..... 419
Myers, Jack. Culture conditions and the development of the photosynthetic mechanism. IV. Influence of light intensity on photosynthetic characteristics of *Chlorella* ..... 429
Nagy, Stephen M., Golumbic, Calvin, Stein, William H., Fruton, Joseph S., and Bergmann, Max. The penetration of vesicant vapors into human skin ..... 441

Index to Volume 29 ..... 471